

# STN-structure Search

10/16/07

10/519,419

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L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:42095 CAPLUS

DOCUMENT NUMBER: 138:83360

TITLE: Transition metal  $\beta$ -diketonate complexes, their preparation, and their use as antitumor agents

INVENTOR(S): Tatarsky, Valeriy

PATENT ASSIGNEE(S): Haemato-Basics G.m.b.H., Uzbekistan

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004014	A1	20030116	WO 2002-EP7299	20020702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10201693	A1	20030116	DE 2002-10201693	20020117
AU 2002325863	A1	20030121	AU 2002-325863	20020702
EP 1401425	A1	20040331	EP 2002-760216	20020702
EP 1401425	B1	20060816		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005501030	T	20050113	JP 2003-510025	20020702
CN 1578658	A	20050209	CN 2002-816172	20020702
AT 336244	T	20060915	AT 2002-760216	20020702
ES 2272755	T3	20070501	ES 2002-2760216	20020702
US 2006052357	A1	20060309	US 2004-519419	20041222
PRIORITY APPLN. INFO.:				
			UZ 2001-200100552	A 20010703
			DE 2002-10201693	A 20020117
			WO 2002-EP7299	W 20020702

OTHER SOURCE(S): MARPAT 138:83360

AB The invention discloses complexes D2-M-T (D =  $\beta$ -diketone; M = Cr, Cu, Mn, Fe, Ni, Co, Zn, Mo; T = substance with at least one group containing N, O or S). The invention also discloses the use of the complexes as antitumor agents.

IT 148-82-3D, transition metal diketonate complexes

14515-61-8 36578-98-0 42566-21-2

71035-39-7 286385-25-9 485401-85-2

485401-86-3 485401-87-4 485401-88-5

485401-89-6 485401-90-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

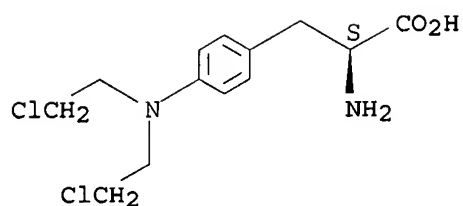
(preparation of transition metal  $\beta$ -diketonate complexes and use as antitumor agents)

RN 148-82-3 CAPLUS

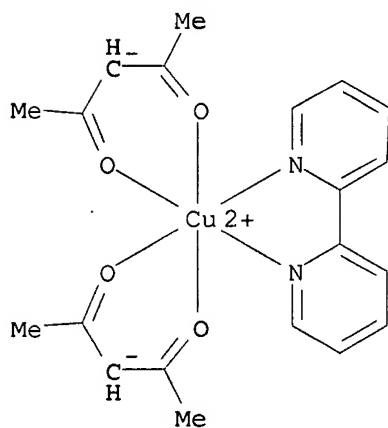
CN L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- (CA INDEX NAME)

Absolute stereochemistry.

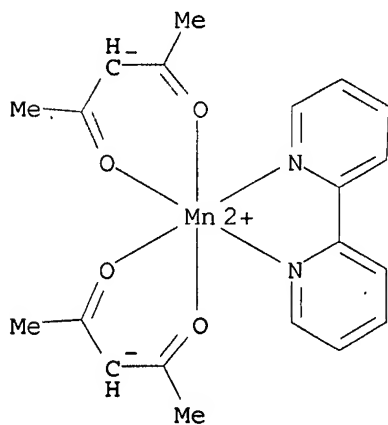
10/519,419



RN 14515-61-8 CAPLUS  
 CN Copper, (2,2'-bipyridine- $\kappa$ 1N, $\kappa$ N1')bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O')-, (OC-6-21) - (9CI) (CA INDEX NAME)

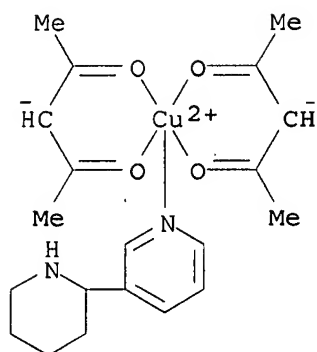


RN 36578-98-0 CAPLUS  
 CN Manganese, (2,2'-bipyridine- $\kappa$ N1, $\kappa$ N1')bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O')-, (OC-6-21) - (9CI) (CA INDEX NAME)

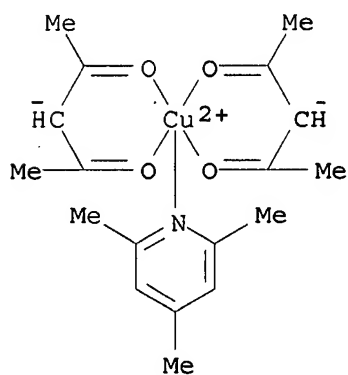


RN 42566-21-2 CAPLUS  
 CN Copper, bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O') [3-(2-piperidinyl)pyridine- $\kappa$ N]-, (SP-5-21) - (9CI) (CA INDEX NAME)

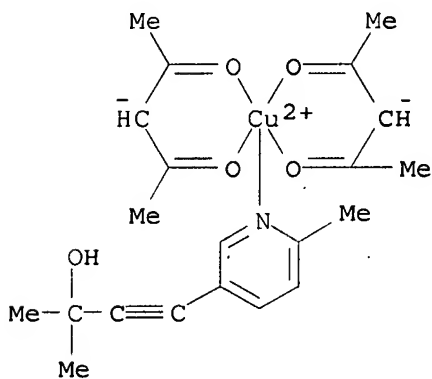
10/519,419



RN 71035-39-7 CAPLUS  
 CN Copper, bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O') (2,4,6-trimethylpyridine)-, (SP-5-21)- (9CI) (CA INDEX NAME)

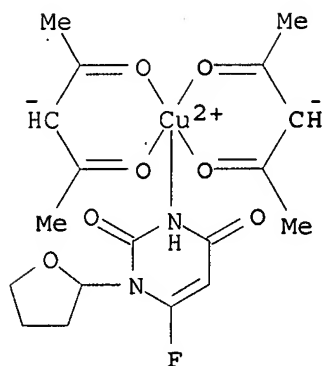


RN 286385-25-9 CAPLUS  
 CN Copper, [2-methyl-4-(6-methyl-3-pyridinyl- $\kappa$ N)-3-butyn-2-ol]bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O')-, (SP-5-21)- (9CI) (CA INDEX NAME)



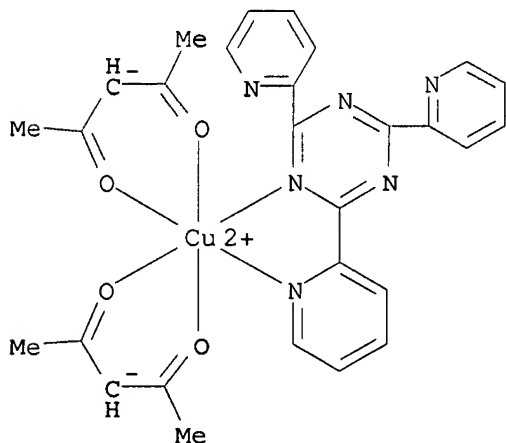
RN 485401-85-2 CAPLUS  
 CN Copper, [6-fluoro-1-(tetrahydro-2-furanyl)-2,4(1H,3H)-pyrimidinedione- $\kappa$ N3]bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O')- (9CI) (CA INDEX NAME)

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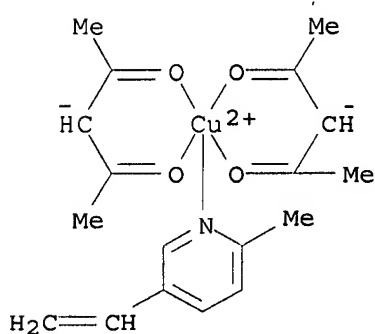
RN 485401-86-3 CAPLUS

CN Copper, bis(2,4-pentanedionato-κO,κO') [2-(2-pyridinyl-κN)-4,6-di-2-pyridinyl-1,3,5-triazine-κN1]-, (OC-6-31)- (9CI)  
(CA INDEX NAME)



RN 485401-87-4 CAPLUS

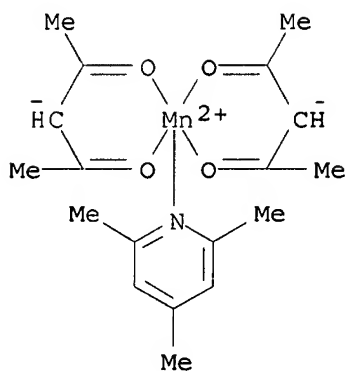
CN Copper, (5-ethenyl-2-methylpyridine)bis(2,4-pentanedionato-κO,κO')- (9CI) (CA INDEX NAME)



RN 485401-88-5 CAPLUS

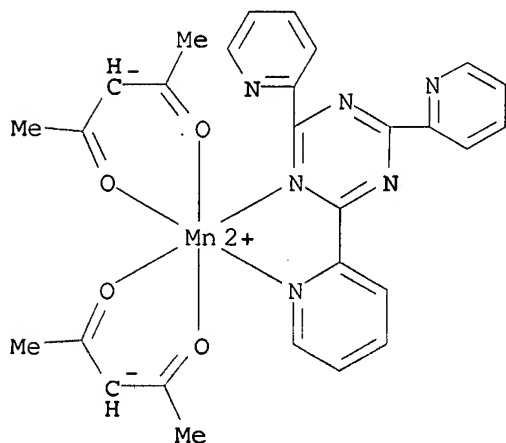
CN Manganese, bis(2,4-pentanedionato-κO,κO') (2,4,6-trimethylpyridine)- (9CI) (CA INDEX NAME)

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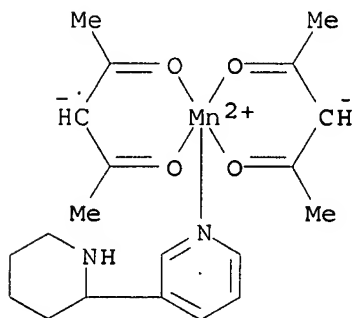
RN 485401-89-6 CAPLUS

CN Manganese, bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O') [2-(2-pyridinyl- $\kappa$ N)-4,6-di-2-pyridinyl-1,3,5-triazine- $\kappa$ N1]-, (OC-6-31)- (9CI)  
(CA INDEX NAME)



RN 485401-90-9 CAPLUS

CN Manganese, bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O') [3-(2-piperidinyl)pyridine- $\kappa$ N]- (9CI) (CA INDEX NAME)



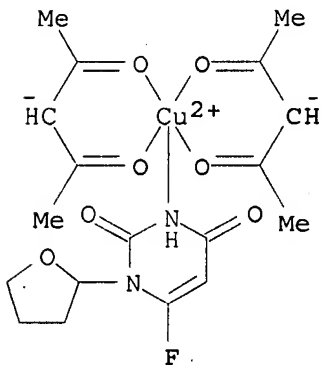
IT 485401-91-0P

RL: PKT (Pharmacokinetics); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation of transition metal  $\beta$ -diketonate complexes and use as antitumor agents)

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RN 485401-91-0 CAPLUS

CN Copper, [6-fluoro-1-(tetrahydro-2-furanyl)-2,4(1H,3H)-pyrimidinedione- $\kappa$ N3]bis(2,4-pentanedionato- $\kappa$ O, $\kappa$ O')-, labeled with tritium (9CI) (CA INDEX NAME)



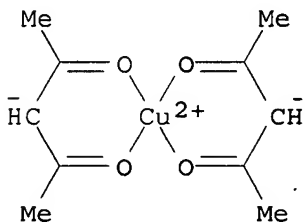
IT 13395-16-9, Bis(acetylacetonato)copper

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of transition metal  $\beta$ -diketonate complexes and use as antitumor agents)

RN 13395-16-9 CAPLUS

CN Copper, bis(2,4-pentanedionato- $\kappa$ O2, $\kappa$ O4)-, (SP-4-1)- (CA INDEX NAME)



REFERENCE COUNT:

34

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 08:44:46 ON 16 OCT 2007)

FILE 'REGISTRY' ENTERED AT 08:44:58 ON 16 OCT 2007

E MELPHALAN/CN

L1 1 S E3  
L2 1 S 148-82-3/RN  
L3 STRUCTURE UPLOADED  
L4 50 S L3  
L5 14375 S L3 FULL

FILE 'CAPLUS' ENTERED AT 08:49:52 ON 16 OCT 2007

L6 18623 S L5  
L7 3983 S L2  
L8 1 S L6 AND L7

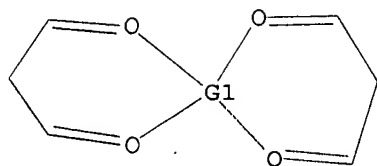
=> d l3

L3 HAS NO ANSWERS

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L3

STR



G1 Co,Cr,Cu,Fe,Mn,Mo,Ni,Zn

Structure attributes must be viewed using STN Express query preparation.

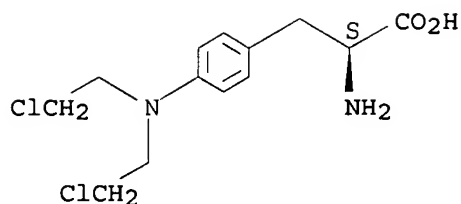
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YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 148-82-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Alanine, 3-[p-[bis(2-chloroethyl)amino]phenyl]-, L- (8CI)  
OTHER NAMES:  
CN 3025CB  
CN Alanine nitrogen mustard  
CN Alkeran  
CN CB 3025  
CN L-PAM  
CN L-Phenylalanine mustard  
CN L-Phenylalanine mustard hydrochloride  
CN L-Sarcosine  
CN L-Sarcosine  
CN L-Sarcosine  
CN Levofalan  
CN Levofalan  
CN Levofalan  
CN Melfalan  
CN Melphalan  
CN NSC 241286  
CN NSC 8806  
CN Phenylalanine mustard  
CN Sarcosine  
FS STEREOSEARCH  
DR 8057-25-8  
MF C13 H18 Cl2 N2 O2  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO,  
CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSChem,  
CSNB, DDFU, DRUGU, EMBASE, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB,  
IMSCoSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PHAR, PROMT, PROUSDDR, PS,  
RTECS\*, SCISEARCH, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL,  
USPATOLD, VETU  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, WHO  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3972 REFERENCES IN FILE CA (1907 TO DATE)  
199 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
3983 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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(FILE 'HOME' ENTERED AT 08:44:46 ON 16 OCT 2007)

FILE 'REGISTRY' ENTERED AT 08:44:58 ON 16 OCT 2007  
E MELPHALAN/CN

L1 1 S E3  
L2 1 S 148-82-3/RN  
L3 STRUCTURE UPLOADED  
L4 50 S L3  
L5 14375 S L3 FULL

FILE 'CAPLUS' ENTERED AT 08:49:52 ON 16 OCT 2007

L6 18623 S L5  
L7 3983 S L2  
L8 1 S L6 AND L7

FILE 'REGISTRY' ENTERED AT 08:51:03 ON 16 OCT 2007

FILE 'CAPLUS' ENTERED AT 08:51:04 ON 16 OCT 2007

L9 82701 S PHENYLALANINE?  
L10 337 S L7 AND L9  
L11 23 S L6 AND L9  
L12 618582 S ANTITUMOR OR TUMOR?  
L13 0 S L11 AND L12  
L14 0 S L11 AND CANCER

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